

REPORT ON ELECTRIC FITTINGS

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

TUE DEC 11 1923

Date of writing Report

10

When handed in at Local Office

8. 12.

1923 Port of

Middlesbrough

No. in Survey held at *Haverton Hill-on-Tees* Date, First Survey *whk* Last Survey *Building* 19

Reg. Book.

(Number of Visits.....)

on the *Steel Screw Steamer "London Importer"*Tons { Gross
NetBuilt at *Haverton Hill-on-Tees* By whom built *Furness Shipbuilding Co Ltd* Yard No. *33* When built *1923*Owners *Messrs Furness Withy & Co Ltd* Port belonging to *London*Electric Light Installation fitted by *Messrs Furness Shipbuilding Co Ltd* Contract No. When fitted *1923*

System of Distribution

*Double Wire Insulated*Pressure of supply for Lighting *100* volts, Heating *—* volts, Power *100* volts.Direct or Alternating Current, Lighting *Direct* Power *Direct*If alternating current system, state frequency of periods per second *—*Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off *yes*Generators, do they comply with the requirements regarding overload *yes*, are they compound wound *yes*are they over compounded 5 per cent. *Level*, if not compound wound state distance between each generator *—*Where more than one generator is fitted are they arranged to run in parallel *No*, is an adjustable regulating resistance fitted in series with each shunt field *yes*Are all terminals accessible and clearly marked *yes*, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited *yes* Are the lubricating arrangements of the generators as per Rule *yes*Position of Generators *Generator Comp Port Side Tween Decks*, is the ventilation in way of the generators satisfactory *yes*, are they clear of all inflammable material *yes*if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators *—* and *—*, are the generators protected from mechanical injury and damage from water, steam or oil *yes*are their axis of rotation fore and aft *yes*Earthing, are the bedplates and frames of the generating plant efficiently earthed *yes* are the prime movers and their respective generators in metallic contact *yes*Main Switch Boards, where placed *Near Generators in Generator Comp Port Side Tween Decks*If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard *—*Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes *yes*are they protected from mechanical injury and damage from water, steam or oil *yes*, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards *—* and *—*are they constructed wholly of durable, incombustible non-absorbent materials *yes*, is all insulation of high dielectric strength and of permanently high insulation resistance *yes*if semi-insulating material is used, are all conducting parts connected to one pole insulated from the slab with mica or micanite and the slab similarly insulated from its framework *yes*, and is the frame effectively earthed *yes*Are the following fittings as per Rule, viz.:— spacing or shielding of live parts *yes*, accessibility of all parts *yes*, absence of fuses on back of board *yes*, proportion of omnibus bars *yes*individual fuses to voltmeter, pilot or earth lamp *yes*, connections of switches *yes*Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches *—**D.P. Switch & fuse for each generator & Outgoing circuit. D.P. Changeover Switch for connecting each generator alternatively to Bus Bars (Fuses Porcelain H.O. Pattern)*Instruments on main switchboard *2* ammeters *1* voltmeters *—* synchronising device for paralleling purposes.Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system *Two 16 cp lamps in series & middle point earthed, connected to each bus bar by means of Switch & fuse*Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules *yes*Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule *yes*

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office.....

© 2020
Lloyd's Register
Foundation

All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

FURNESS SHIPBUILDING CO. LIMITED

P. S. Glover

Electrical Engineer.

Date 24th October 1923

COMPASSES.

Distance between electric generators or motors and standard compass

140'

Distance between electric generators or motors and steering compass

130'

The nearest cables to the compasses are as follows:—

A cable carrying 6 Amperes 3 feet from standard compass — feet from steering compass.

A cable carrying 3 Amperes inside feet from standard compass — feet from steering compass.

A cable carrying — Amperes — feet from standard compass — feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power. yes

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted yes

The maximum deviation due to electric currents was found to be nil degrees on all courses in the case of the standard compass, and nil degrees on all courses in the case of the steering compass.

FURNESS SHIPBUILDING CO. LIMITED

Wm Quarré

Builder's Signature.

Date

Secretary.

S.S. London Merchant - Mdb 11595

Is this installation a duplicate of a previous case yes If so, state name of vessel S.S. London Shipper - 11683

General Remarks (State quality of workmanship, opinions as to class, &c. This installation has been fitted in accordance with the Rules, is of good materials and workmanship and on completion was examined under full working conditions and found satisfactory)

It is submitted that this vessel is eligible for THE RECORD.

Elec. Light.

W.A. 13/2/23.

Total Capacity of Generators 27½ Kilowatts

The amount of Fee ... £ 21 : 5 : 9

When applied for,

10.12.1923

Travelling Expenses (if any) £ ✓ :

When received,

La dit book

Wm Morrison

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 14 DEC. 1923

FRI. DEC. 21 1923

Assigned

Elec Lt.



© 2020

Lloyd's Register Foundation